

isc N-Channel MOSFET Transistor IPD60R1K5CE,IIPD60R1K5CE

FEATURES

- Static drain-source on-resistance: R_{DS}(on)≤1.5Ω
- Enhancement mode:
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

DESCRITION

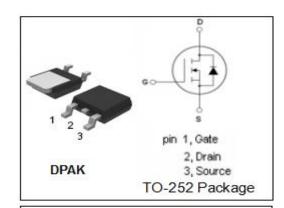
· Fast switching

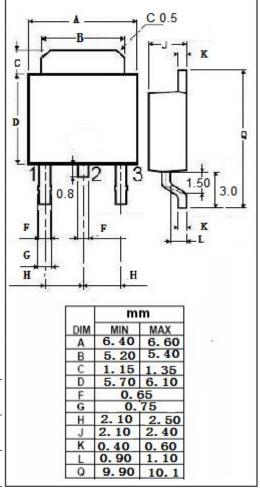
• ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{DSS}	Drain-Source Voltage	600	V	
V _{GS}	Gate-Source Voltage	±20	V	
ID	Drain Current-Continuous	5	А	
I _{DM}	Drain Current-Single Pulsed	8	А	
P _D	Total Dissipation @T _C =25°C	49	.9 W	
Tj	Max. Operating Junction Temperature 150		$^{\circ}$ C	
T _{stg}	Storage Temperature	-40~150	$^{\circ}$	

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth(j-c)	Channel-to-case thermal resistance	2.57	°C/W
Rth(j-a)	Channel-to-ambient thermal resistance	62	°C/W







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IPD60R1K5CE,IIPD60R1K5CE

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	ТҮР	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D =0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	VDS=VGS; I _D =0.09mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} =10V; I _D =1.1A			1.5	Ω
I _{GSS}	Gate-Source Leakage Current	V _{GS} =20V; V _{DS} =0V			0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} =600V; V _{GS} = 0V			1	μА
V _{SD}	Diode forward voltage	I _F =1.4A, V _{GS} = 0V		0.9		V

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